1 (Currently Amended). A method comprising:

receiving motion detection information from an infrared motion detector;

~~detecting motion within an imaged scene;~~

capturing a digital representation of a ~~said~~ scene in an imaging device;

~~encoding information in said digital representation to indicate whether motion was detected; and~~

forming in said imaging device a plurality of packets containing image data and said motion detection information; and

transmitting said packets ~~digital representation~~ from said imaging device to a processor-based system over a bus.

2 (Currently Amended). The method of claim 1 including transmitting said packets ~~digital representation~~ over a Universal Serial Bus.

Claim 3 (Canceled).

4 (Currently Amended). The method of claim 1 ~~3~~ including replacing intensity information in said packet ~~digital representation~~ with said motion information.

5 (Currently Amended). The method of claim 4 including providing a bit in said packet ~~digital representation~~ to indicate whether motion was detected.

Claim 6 (Canceled).

7 (Currently Amended). The method of claim 1 ~~6~~ including controlling the storage of said digital representation on a ~~the~~ processor-based system based on whether motion was detected.

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8 (Currently Amended). The method of claim 1 ~~wherein encoding information in said digital representation includes forming a plurality of packets containing image data and~~ <u>including</u> replacing image data in one of said packets with <u>said motion detection</u> information ~~about whether motion was detected~~.

9 (Currently Amended). An article comprising a medium storing instructions that<u>, if executed,</u> enable a <u>digital imaging device</u> ~~processor-based system~~ to:

> detect motion within an imaged scene;
>
> capture a digital representation <u>using an infrared motion detector</u> ~~of said scene in an imaging device~~;
>
> encode <u>said motion detection</u> information in said digital representation ~~to indicate whether motion was detected~~; and
>
> transmit said digital representation from said imaging device to a processor-based system over a bus.

10 (Currently Amended). The article of claim 9 further storing instructions that<u>, if executed,</u> enable the <u>digital imaging device</u> ~~processor-based system~~ to transmit said digital representation over a Universal Serial Bus.

11 (Currently Amended). The article of claim 9 further storing instructions that<u>, if executed,</u> enable the <u>digital imaging device to</u> ~~processor-based system to capture image data representing said scene and~~ encode <u>said motion detection</u> information in said digital representation in place of image data.

12 (Currently Amended). The article of claim 11 further storing instructions that<u>, if executed,</u> enable the <u>digital imaging device</u> ~~processor-based system~~ to replace intensity information in said digital representation with said motion <u>detection</u> information.

13 (Currently Amended). The article of claim 12 further storing instructions that<u>, if executed,</u> enable the <u>digital imaging device</u> ~~processor-based system~~ to provide a bit in said digital representation to indicate whether motion was detected.

Claims 14 and 15 (Canceled).

16 (Currently Amended). The article of claim 9 further storing instructions that, if executed, enable the digital imaging device to processor-based system to form a plurality of packets containing image data and replace image data in one of said packets with said motion detection information about whether motion was detected.

17 (Currently Amended). A digital imaging device comprising:
　　　　an infrared a motion detector;
　　　　an imaging element to capture image data representing an image; and
　　　　a serial bus interface, coupled to said imaging element and said motion detector, said serial bus interface to form forms a plurality of packets containing said image data for transmission over a bus, serial bus interface to incorporate incorporates information about whether motion was detected by said infrared motion detector into said packets containing said image data.

18 (Original). The device of claim 17 wherein said serial bus interface is coupled to a Universal Serial Bus.

19 (Original). The device of claim 17 including a processor-based device coupled to the bus, said motion detector, serial bus interface and imaging element also coupled to said bus.

20 (Original). The device of claim 17 wherein said serial bus interface forms said image data into packets including both a payload and a header.

21 (Original). The device of claim 20 including intensity information in said packets, said intensity information having a least significant bit.

22 (Original). The device of claim 21 including replacing said least significant bit with a bit indicating whether motion was detected by said motion detector.

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23 (Currently Amended). A system comprising:

~~a digital imaging device including a motion detector and a packetizer that converts image data captured by said imaging device into a plurality of packets;~~

an infrared ~~said~~ motion detector coupled to said imaging device;~~, said image device generating motion data, said packetizer packetizing said motion data;~~

a digital imaging device, coupled to said detector, said device including a packetizer that converts image data captured by said imaging device into a plurality of packets and inserts into at least one packet data from said infrared motion detector;

a processor-based device; and

a bus coupling said processor-based device and said imaging device.

24 (Original). The system of claim 23 wherein said bus is a Universal Serial Bus.

25 (Original). The system of claim 23 wherein said packetizer inserts motion data received from said motion detector into packets including said image data.

26 (Original). The system of claim 25 wherein said packetizer inserts a bit indicating whether motion was detected into a packet including image data to indicate whether motion was detected in that image data.